# *User Guide*

## SPRINT AIRAVE™

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*10/6/08*

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# Introduction

This *User Guide* introduces you to the Sprint AIRAVE™ base station service and all the features of your new device. It's divided into four sections:

- *Section 1: Getting Started*
- *Section 2: Using Your Device*
- *Section 3: Optional Installation and Troubleshooting*
- *Section 4: Safety and Warranty Information*

Throughout this guide, you'll find tips and techniques that help you make the most of your new device and service. The Table of Contents and Index will also help you quickly locate specific information.

It is important that you read each section and note any special requirements. However, if you'd like to get right to a specific feature, simply locate that section in the Table of Contents and go directly to that page. Follow the instructions in that section, and you'll be ready to use your base station in no time.

| | |
|---|---|
| *User Guide Note* | *Due to updates in software and procedure, this printed guide may not be the most current version for your base station. Visit* www.sprint.com *and sign on to* My Sprint Wireless *to access the most recent version of this guide.* |

| | |
|---|---|
| *WARNING* | *Please refer to the* Important Safety Information *section on page 26 to learn about information that will help you safely use your device. Failure to read and follow the Important Safety Information in this guide may result in serious bodily injury, death, or property damage.* |

*Section 1*

# *Getting Started*

# Quick Setup


- *AIRAVE Quick Setup (page 2)*


***Setting up service on your new AIRAVE base station is fast and easy.*** This section outlines the procedures needed to quickly set up the base station.

## AIRAVE Quick Setup

Congratulations on the purchase of your Sprint AIRAVE™.

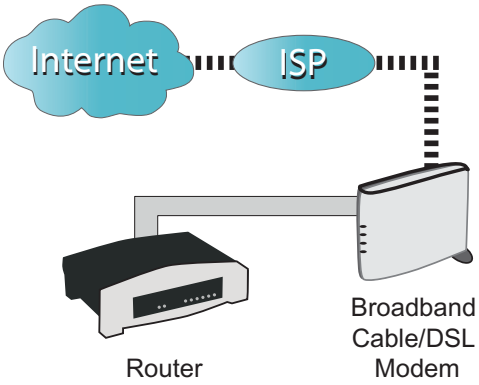
Your purchase of this base station ensures that you and your family will have reliable wireless telephone service while in your home or small office.

1. Confirm that your package contains the following components:
   - AIRAVE base station
   - CAT5 Ethernet Cable
   - Power Supply and Power Cord
   - External GPS Antenna
   - User Guide
2. Your base station should already be activated. If your base station has not already been activated, call ***1-866-556-7310*** to complete your activation process (page 11).

| Note | *The base station must be activated before setup. It will not work unless it has been activated.* |
|---|---|

| Note | *After installing and turning on your base station for the first time, it will go through an automated setup sequence. During this time, the unit's LEDs will change color. When all LEDs have changed to steady blue (stopped blinking), your device is ready to use.* **This process may take up to one hour.** |
|---|---|

3. Review the "Important Safety Information" on page 26 before installing the base station.
4. Make sure that both your router and your Internet Broadband modem are functioning properly.



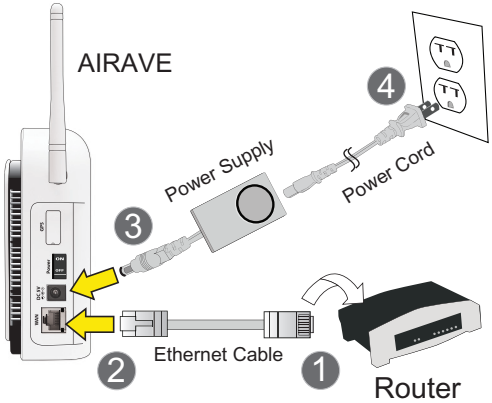

| Note | *A router with at least one free Ethernet port is required to connect the AIRAVE.* |
|---|---|

5. Place the base station near a closed window and in a central location. For best results, place the base station in an elevated location, such as the top of a bookshelf or tall cabinet.
6. Connect one end of the included Ethernet cable to an open port on the router (1) and connect the other end to the WAN port located at the rear of the base station (2).

| Note | *Plug the Ethernet cable into the base station before connecting the power supply.* |
|---|---|

7. Plug the power supply connector into the ***DC 5 V*** power port located at the rear of the base station (3).
8. Insert one end of the power cord into the power supply and then plug the other end into an available power outlet (4).

| WARNING | *Insert the plug into the power outlet last. Failure to do so could cause an electrical short or power surge to the base station. The use of a surge protector is recommended.* |
|---|---|




9. Move the ***Power*** switch to the ***On*** position.

10. Confirm that the front LEDs are illuminated as indicated below:
    - *Power LED*: should be a steady blue (not blinking), indicating that the base station is receiving power.
    - *System LED*: should be a steady blue (not blinking), indicating that the base station is properly communicating with the Sprint network.
    - *GPS LED*: should be a steady blue (not blinking), indicating that the base station has detected a valid GPS signal. If the GPS LED is not lit, the internal antenna may not be able to detect a GPS signal, and installation of the external GPS antenna might be necessary. See "Installing the External GPS Antenna" on page 18.
    - *WAN LED*: should be a steady blue (not blinking), indicating that the base station has detected a valid Ethernet connection.

| Note | *After installing and turning on your base station for the first time, it will go through an automated setup sequence. During this time, the unit's LEDs will change color. When all LEDs have changed to steady blue (stopped blinking), your device is ready to use.* **This process may take up to one hour.** |
|---|---|
| | *If the GPS LED is still red after one hour, you will need to install the optional GPS antenna. See "Installing the External GPS Antenna" on page 18.* |

11. To turn the unit off, move the ***Power*** switch to the ***Off*** position.

*Section 2*

# *Your Device*

Section 2A

# Additional Setup Information

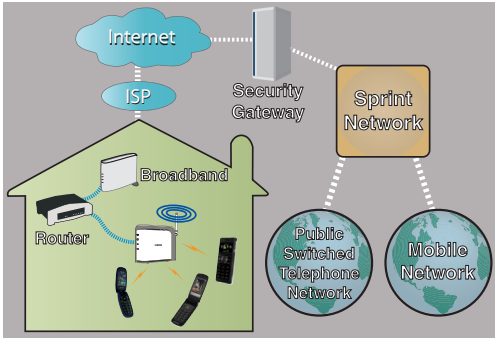

- *Overview (page 8)*
- *Features of Your AIRAVE (page 9)*
- *Activating your AIRAVE Account (page 11)*
- *For More Information (page 12)*


*Getting started with your new Sprint AIRAVE™ is a simple matter.* This section walks you through an overview of the product, package contents, activation, and how to contact Sprint for assistance with your service and your base station.

## Overview

The AIRAVE is a mini base station, or femtocell, that creates Sprint signal within your home or small office. About the size of a traditional wireless access point (WAP), the base station pipes voice and data through the Internet to the Sprint network, which then routes the call to the desired party.

The base station maximizes wireless phone utility within a small area by not only providing better voice quality but by also allowing you to use this new service without any enhancements to your existing wireless phones. It's like having your own miniature cell tower that covers up to 5,000 square feet.




## Features of Your AIRAVE

- Dedicated coverage and capacity, with your calls routing directly through your base station instead of the Sprint Nationwide Network.
- Supports up to three simultaneous callers. Any users that attempt to place a call while the AIRAVE is at maximum capacity will be automatically transferred to the Sprint Nationwide Network, provided that coverage exists.
- Plug and Play operation, with no programming needed and automatic software updates.
- Works with any Sprint wireless phone that operates on the Sprint Nationwide Network.
- Built-in GPS antenna for network timing updates and E911 services.

| Note | *The current GPS location (provided by the GPS antenna) is used to help the base station quickly locate GPS satellites for faster GPS acquisition. If the GPS signal is ever interrupted or too weak because of the location, install the external GPS antenna and place it in an open area for better reception (See "Installing the External GPS Antenna" on page 18.)* |
|---|---|

| Note | *The AIRAVE is not compatible with phones or services that operate only on the Nextel National Network, or with Nextel Direct Connect services on the Sprint network.* |
|---|---|

The following table outlines the bandwidth requirements based on the number of active callers:

| *Simultaneous Callers* | *Download Speed Requirement* | *Upload Speed Requirement* |
|---|---|---|
| 1 caller | 40 Kbps | 40 Kbps |
| 2 callers | 80 Kbps | 80 Kbps |
| 3 callers | 120 Kbps | 120 Kbps |

**Note** *If you have a very limited amount of bandwidth available or if the AIRAVE is placed within a very high traffic area, you can limit which Sprint phones have access to the AIRAVE by calling Sprint Customer Service at* 1-866-556-7310. *Most users, however, will not require this feature.*

In addition to existing Internet bandwidth needs for such things as file download/upload, gaming, and email, the average recommended bandwidth dedicated to AIRAVE is approximately 160 Kbps for download/upload, but it could vary depending on the number of simultaneous voice calls and data sessions desired.

The AIRAVE utilizes approximately 40 Kbps of upload and download capacity per voice call and up to a maximum of 153.8 Kbps per data session if bandwidth is available. Regardless of voice or data, a maximum of three simultaneous sessions can be supported at any given time.

| WARNING | WARNING OF 911 LIMITATIONS:<br><br>*You may not be able to make 911 calls in the event of an electrical power outage, broadband connection failure, or other service disruption.*<br><br>*911 services may be limited in areas outside of Sprint's network coverage. Not all public safety answering points have location-based E911 technology.* **Always be prepared to report your location to the 911 operator when placing an emergency call.**<br><br>*Mobile phones operate using radio signals which cannot guarantee connection in all conditions.* |
|---|---|

## *Activating your AIRAVE Account*

Your base station should already be activated. If it is not activated, please call Sprint Customer Service at *1-866-556-7310*.

| Note | *The base station must be activated before setup. It will not work unless it has been activated.* |
|---|---|

Should you need to activate your base station, you will be asked to provide the following information:

- ***Primary Wireless Phone Number*** (Account number)
- ***Account Password***
- ***MAC ID*** of the specific base station found on the sticker affixed to the device.

## *For More Information*

- Visit the AIRAVE Web site at ***www.sprint.com/AIRAVE***.
- Contact Sprint Customer Service at

  ***1-866-556-7310*** (for activation and technical issues).

  – or –

  ***1-888-211-4727*** (for billing and other questions).

# AIRAVE: The Basics

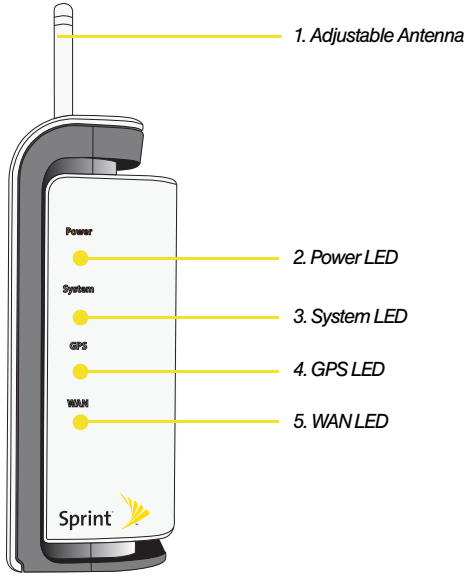

- *Components (page 13)*
- *Maintenance Notes (page 16)*


***Your base station is packed with features that both simplify your life and expand your ability to stay connected to the people and information that are important to you.*** This section will guide you through the basic features and functions of your Sprint AIRAVE™ base station.

## Components

### Front View

The base station is a very simple device with four LED indicators to let you know its status.



1. ***Adjustable Antenna*** provides omnidirectional transmission and reception of signals between the base station and communicating wireless phones.

| WARNING | *The adjustable antenna rotates only 180 degrees. Rotating it beyond that angle may damage the antenna.* |
|---|---|

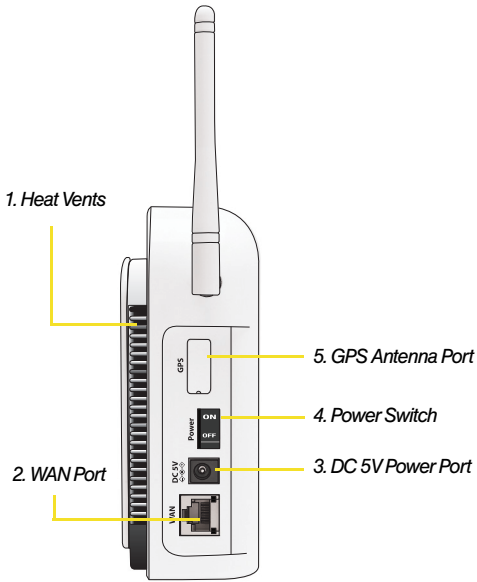
2. ***Power LED*** indicates the power status.
   - Illuminates a steady blue (not blinking) when the base station is powered on.
   - No illumination indicates the base station is not receiving power.
3. ***System LED*** indicates the status of the communication with the Sprint network system.
   - Illuminates a steady blue (not blinking) when the base station is communicating with the system.
   - Illuminates red when a system error is detected. This typically indicates a communication problem with the Sprint network.
4. ***GPS LED*** indicates the GPS connection status.
   - Illuminates a steady blue (not blinking) when the base station has detected a valid GPS signal.
   - Illuminates red when the internal GPS antenna is not able to detect a stable GPS signal and cannot validate accurate time and location information.

| Note | *The GPS signal can also be improved by connecting the external GPS antenna to the rear of the base station.* |
|---|---|

5. ***WAN LED*** indicates the status of the Wide Area Network activity via an active Ethernet connection. It does not detect either an ISP connection or a router connection to the ISP.
   - Illuminates a steady blue (not blinking) when a valid Ethernet connection is detected.
   - Illuminates red when no valid Ethernet connection is detected.

## *Rear View*

The rear of the base station has connectors for power, LAN, and an optional external GPS antenna (usually not necessary).




**Note** *The base station needs to remain vertical and in a well-ventilated location. The vertical position allows proper air flow of the internal components.*

1. ***Heat Vents*** provide ventilation for the base station and allow for the dissipation of internally generated heat.
2. ***WAN Port*** allows you to connect a CAT5 or CAT6 Ethernet cable and establish communication between the base station and your router. This connection port is then used to transmit voice and data through the Internet to the Sprint network, which then authenticates the AIRAVE base station and allows communication with the wireless phones.
   - If the corresponding WAN LED does not illuminate, this indicates that although an Ethernet cable is connected, no communication is occurring through either your router or your DSL or cable box to your ISP.
   - Please make sure your broadband connection is active and functioning properly. Contact your ISP if the problem persists.

3. *DC 5V Power Port* provides power to the base station when connected to the AC power adapter and cord (included).

| WARNING | *Use only the power adapter and cord that are included in the package. Using any other power source may damage the base station.* |
|---|---|

4. *Power Switch* allows you to turn the base station on or off.
   - Each time the base station is powered on, it goes through the process of detecting its connections, authenticating with the network, and determining its location.
5. *GPS Antenna Port* allows you to connect the external GPS antenna if the internal GPS antenna is unable to detect a valid signal.
   - If the corresponding GPS LED illuminates red, this indicates that no GPS signal can be detected and the external antenna should be used.

## Maintenance Notes

*These notes should be carefully reviewed before using the base station:*

- See “General Precautions” on page 26.
- Only connect the base station’s power plug to a 110–125 VAC outlet.
- When cleaning the AIRAVE, first unplug the connector from the power outlet. Do not clean the base station using chemical solvents or detergents, but with an anti-static cleaning pad.
- The AIRAVE should be placed at least 3-5 feet away from a Wi-Fi router.
- Do not obstruct the heat vents by blocking the openings or covering the base station.
- Remove the base station’s power connector from the power outlet if the base station will not be used for an extended period.

*Section 3*

# *Optional Installation and Troubleshooting*

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# Antenna Installation


- *Installing the External GPS Antenna (page 18)*


***If your AIRAVE is ever unable to receive a GPS signal, it may become necessary to improve the reception by installing the GPS antenna.*** This section outlines the installation of this external GPS antenna.

## Installing the External GPS Antenna

In very rare cases, you may find that because of its current location, the base station's internal GPS antenna may not be able to properly receive and maintain an active GPS signal. If the GPS signal is not detected, as indicated by the LED, connect the included external GPS antenna.

Without a valid GPS signal, the base station will not function. Any new calls will be redirected to the nearest cell tower.

If the GPS signal is ever interrupted or insufficient because of location, install the external GPS antenna and place it in an open area for better reception.

| WARNING | *Use only the included Sprint-approved GPS antenna.* |
|---|---|

### Connecting the GPS Antenna

When positioning the GPS antenna, ensure that it is:

- Installed in a horizontal position.

| WARNING | *Do not use duct tape to secure the GPS antenna to its new location.* |
|---|---|

- Adjacent to a closed window and in an open area. This ensures a clear reception of the GPS signal.

| Note | *GPS signal strength can be greatly reduced in passing through walls or other hard surfaces.* |
|---|---|

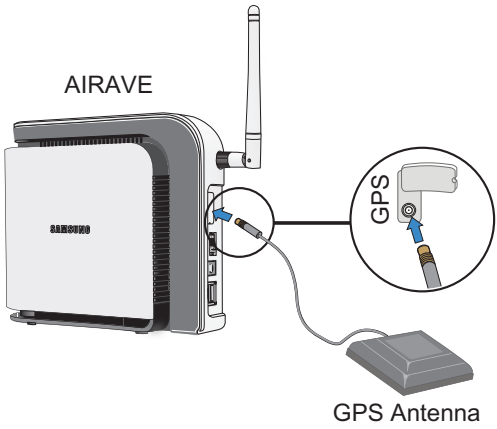
## *Connecting the GPS antenna to the AIRAVE base station*

1. Turn off the base station.
2. Identify the GPS port located at the rear of the base station.
3. Carefully lift the protective cover up to expose the GPS mini-coax connector.

| *Note* | *Do not completely remove the plastic cover. The top of the cover (closest to the antenna) is fastened to the base station and should not be removed.* |
|---|---|

4. Insert the mini-coax connector into the GPS antenna port on the base station.

| *WARNING* | *Do not force the connector into the GPS antenna port as this can damage the connector.* |
|---|---|




5. Locate the GPS antenna indoors on a flat surface.

| *WARNING* | *The external GPS antenna should not be used outdoors.* |
|---|---|

| Tip | *You can use double-sided tape to secure the bottom of the GPS antenna to its new location.* |
|---|---|

6. Reposition or reconnect the Ethernet cable and power cable, if necessary.
7. Turn the base station on to allow the detection of both the external antenna connection and an available GPS signal.

| Note | *The base station may take up to 20-30 minutes to get a GPS lock.* |
|---|---|

# Troubleshooting

◆ *Troubleshooting (page 21)*

***Now that you've been given an overview of the AIRAVE base station, some situations might arise where you'll need additional usage or connection help.*** This section provides some base station troubleshooting tips and techniques.

## Troubleshooting

Here is a brief list of the potential problems that may arise with your device. For more information, please visit us online at ***www.sprint.com/AIRAVE***.

- ***My Power LED is not Illuminating.***
  - Make sure that one end of the power cord is securely connected to an active outlet and that the other end is properly connected to the power adapter.
  - Make sure the power connector is securely inserted into the rear ***DC 5V*** port on the back of the base station.
  - Make sure the ***Power*** switch is in the ***On*** position.
- ***My GPS LED is not illuminating blue even after a few minutes.***

| Note | *The first time the base station is used after installation or after relocation, it could take up to one hour to acquire a GPS fix. This is normal.* |
|---|---|

  - The internal antenna is either unable to obtain or having difficulty obtaining a GPS signal.
  - Move the base station to a location with fewer surrounding obstructions. The new location should be in a more open area and near a closed window, if possible.
  - If relocation does not resolve the issue, connect the external GPS antenna to the rear of the base station. See "Connecting the GPS Antenna" on page 18.

- Make sure the power adapter is properly configured and securely connected to the rear of the base station.
- Make sure the ***Power*** switch is in the ***On*** position. If the Power LED is not lit, refer to the first troubleshooting tip for more details.
- If the preceding fails, move the ***Power*** switch to the ***Off*** position, remove the power cord from the wall outlet, and then remove the power connector from the ***DC 5V*** port at the rear of the base station for at least 10 seconds.
- Reconnect the power connector to the ***DC 5V*** port, plug the power cord into the wall outlet, and then move the ***Power*** switch to the ***On*** position. This allows the base station to initiate its startup sequence where it detects the Ethernet connection, GPS signal, and communication with the system.

- ***My WAN LED is red and not blue.***
  - A red light indicates that the WAN port is receiving power but has not detected a valid Ethernet connection.
  - Confirm that both ends of the Ethernet cable are securely plugged into the WAN port on the base station and into an open port on the router. Cycle power to the base station by toggling the ***Power*** switch from ***On*** to ***Off*** and then waiting a few seconds before switching the base station back on.
- ***My WAN LED is blue but there is no communication.***
  - Check that the router is communicating properly with your ISP. The Internet activity LED on your router should be blinking. For further router troubleshooting tips, please review the router manufacturer's printed or online documentation.
- ***My System LED is red.***
  - A red System LED indicates a system error was detected and is symptomatic of a communication problem with the Sprint network.
  - Before contacting your Sprint Customer Service Center, check the following:
    - Is your WAN LED illuminating blue? If it is not, then there may be a communication problem between your base station and the router.

- Is the GPS LED illuminating blue? If it is not, the base station might not be properly receiving a GPS signal. Inability to receive a GPS signal can result in the base station failing to validate your account information and network timing, which then prevents usage and reroutes you back to the nearest cell tower. If this is the problem, install the external GPS antenna (page 18).

- *The AIRAVE base station seems to be getting too hot.*
  - Make sure there is nothing blocking the heat vents located along the side of the base station.
  - It is recommended that the AIRAVE be located in a well-ventilated open area at least 12 inches from any surrounding hard surfaces. It is not recommended that the base station be installed in a cabinet or other enclosed location.

- *Under what circumstances should I restrict my Sprint AIRAVE?*
  - Although you can limit access to your AIRAVE by calling Sprint Customer Service at *1-866-556-7310*, restriction is not necessary and needed only in the rare circumstance that other Sprint users are taking up available capacity on your device. Since in most cases a user would have to be inside your home or office to acquire the AIRAVE, restricting the device could also mean restricting any guests or colleagues who are within your home or office.

- *Does restricting my AIRAVE provide additional security?*
  - No, restricting your AIRAVE does not provide additional security. Whether in open or restricted mode, security is provided via standard CDMA encoding for the portion of the traffic between your mobile phones and the AIRAVE, and IPSec encryption for the portion of the traffic that is routed over your broadband Internet connection (between the AIRAVE and the Sprint Nationwide Network).

Section 4

# Safety and Warranty Information

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# Important Safety Information


- *General Precautions (page 26)*
- *Maintaining Safe Use of and Access to Your Base Station (page 27)*
- *Radio Frequency (RF) Energy (page 28)*
- *Owner's Record (page 28)*
- *User Guide Proprietary Notice (page 29)*


***This user guide contains important operational and safety information that will help you safely use your base station.*** Failure to read and follow the information provided in this user guide may result in serious bodily injury, death, or property damage.

## General Precautions

There are several simple guidelines to operating your base station properly and maintaining safe, satisfactory service.

- Avoid exposing your base station to rain or liquid spills. If your base station does get wet, immediately turn the power off and remove the power connector.
- Do not operate the base station in an extremely dusty or humid environment.
- Avoid placing the base station near radiators or other heating sources.
- Do not obstruct the heat vents by blocking the openings or covering the base station, and do not operate it in a confined space.
- Avoid locating the base station where it could be exposed to direct sunlight for prolonged periods.
- Do not connect the base station to a power strip containing an excessive number of other devices.
- If the base station will not be used for a prolonged period, remove the power cord from the AC outlet.
- Although your base station is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending, or sitting on it.
- Any changes or modifications to your base station not expressly approved in this document could void your warranty for this equipment and void your authority to operate this equipment.

| Note | *For the best care of your base station, ensure that only authorized personnel service your device. Failure to do so may be dangerous and void your warranty.* |
|---|---|

## *Maintaining Safe Use of and Access to Your Base Station*

### *Do Not Rely on Your Base Station for Emergency Calls*

Your base station operates using radio signals, which cannot guarantee connection in all conditions. Therefore you should never rely solely upon your base station for essential communication (e.g., medical emergencies). Emergency calls may not be possible on all cellular networks or when certain network services or mobile phone features are in use. Check with your local service provider for details.

| WARNING | WARNING OF 911 LIMITATIONS:<br><br>*You may not be able to make 911 calls in the event of an electrical power outage, broadband connection failure, or other service disruption.*<br><br>*911 services may be limited in areas outside of Sprint's network coverage. Not all public safety answering points have location-based E911 technology.* **Always be prepared to report your location to the 911 operator when placing an emergency call.**<br><br>*Mobile phones operate using radio signals which cannot guarantee connection in all conditions.* |
|---|---|

### *Using Your Base Station Near Other Electronic Devices*

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, RF signals from your base station may affect inadequately shielded electronic equipment.

Conversely, do not install your base station near products which generate electromagnetic radiation, such as a computer monitor or microwave oven.

Consult the manufacturer of any personal medical devices, such as pacemakers and hearing aids, to determine if they are adequately shielded from external RF signals.

*Restricting Children's Access to Your Base Station*

Your base station is not a toy. Do not allow children to play with it as they could hurt themselves and others, or damage the base station.

# Radio Frequency (RF) Energy

*Understanding How Your Base Station Operates*

Your base station functions as a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your base station, the system handling your call controls the power level. This power can range from 1 microwatt to 50 milliwatts.

*Knowing Radio Frequency Safety*

The design of your base station complies with updated NCRP standards described below.

In 1991–92, the Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute (ANSI) joined in updating ANSI's 1982 standard for safety levels with respect to human exposure to RF signals. More than 120 scientists, engineers and physicians from universities, government health agencies and industries developed this updated standard after reviewing the available body of research. In 1993, the Federal Communications Commission (FCC) adopted this updated standard in a regulation. In August 1996, the FCC adopted hybrid standard consisting of the existing ANSI/IEEE standard and the guidelines published by the National Council of Radiation Protection and Measurements (NCRP).

For more information about RF exposure, visit the FCC Web site at www.fcc.gov.

## FCC Radio Frequency Emission

This device meets the FCC Radio Frequency Emission Guidelines.

FCC ID number: A3LSCS-26UC.

# Owner's Record

The model name, model number, regulatory number, and FCC ID are located on a label affixed to the bottom of the unit. The serial number and MAC ID are on a sticker affixed on the side of the unit. Record the serial number and the MAC ID in the space provided below. This will be helpful if you need to contact us about your base station in the future.

Model: Sprint AIRAVE™

Serial No.:

MAC ID:

# *User Guide Proprietary Notice*

CDMA Technology is licensed by QUALCOMM Incorporated under one or more of the following patents:

| | | | |
|---|---|---|---|
| 4,901,307 | 5,109,390 | 5,267,262 | 5,416,797 |
| 5,506,865 | 5,544,196 | 5,657,420 | 5,101,501 |
| 5,267,261 | 5,414,796 | 5,504,773 | 5,535,239 |
| 5,600,754 | 5,778,338 | 5,228,054 | 5,337,338 |
| 5,710,784 | 5,056,109 | 5,568,483 | 5,659,569 |
| 5,490,165 | 5,511,073 | | |

User Guide template version 7B (December 2007)

# Manufacturer's Warranty


- *Manufacturer's Warranty (page 30)*


***Your AIRAVE has been designed to provide you with reliable, worry-free service.*** If for any reason you have a problem with your equipment, please refer to the manufacturer's warranty in this section.

For information regarding the terms and conditions of service for your base station, please visit ***www.sprint.com*** or call Sprint Customer Service at ***1-888-211-4727***.

## Manufacturer's Warranty

### STANDARD LIMITED WARRANTY

***What is Covered and For How Long?***
SAMSUNG TELECOMMUNICATIONS AMERICA, LLC ("SAMSUNG") warrants to the original purchaser ("Purchaser") that SAMSUNG's base station and accessories ("Products") included in this package are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase and continuing for the following specified period of time after that date:

| | |
|---|---|
| Base Station | 1 Year |
| External GPS Antenna | 1 Year |
| Other Phone Accessories | 1 Year |

*What is Not Covered?*
This Limited Warranty is conditioned upon proper use of Product by Purchaser. This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical or electromechanical stress, or modification of any part of Product, including antenna, or cosmetic damage; (b) equipment that has the serial number removed or made illegible; (c) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal use; (d) malfunctions resulting from the use of Product in conjunction with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (e) defects or damage from improper testing, operation, maintenance, installation, or adjustment; (f) installation, maintenance, and service of Product, or (g) Product used or purchased outside the United States or Canada.

*What are SAMSUNG's Obligations?*
During the applicable warranty period, SAMSUNG will repair or replace, at SAMSUNG's sole option, without charge to Purchaser, any defective component part of Product. To obtain service under this Limited Warranty, Purchaser must return Product to an authorized service facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the date of purchase, the serial number of Product and the sellers' name and address. To obtain assistance on where to deliver the Product, call Samsung Customer Care at 1-888-987-4357.

Upon receipt, SAMSUNG will promptly repair or replace the defective Product.

SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product or replace Product with a rebuilt, reconditioned or new Product. All other repaired/replaced Product will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for 90 days, whichever is longer. All replaced parts, components, boards and equipment shall become the property of SAMSUNG. If SAMSUNG determines that any Product is not covered by this Limited Warranty, Purchaser must pay all parts, shipping, and labor charges for the repair or return of such Product.

*What Are the Limits on SAMSUNG's Liability?*
EXCEPT AS SET FORTH IN THE EXPRESS WARRANTY CONTAINED HEREIN, PURCHASER TAKES THE PRODUCT "AS IS," AND SAMSUNG MAKES NO WARRANTY OR REPRESENTATION AND THERE ARE NO CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT, INCLUDING BUT NOT LIMITED TO:

"THE MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR ANY PARTICULAR PURPOSE OR USE;

"WARRANTIES OF TITLE OR NON-INFRINGEMENT;

"DESIGN, CONDITION, QUALITY, OR PERFORMANCE OF THE PRODUCT;

"THE WORKMANSHIP OF THE PRODUCT OR THE COMPONENTS CONTAINED THEREIN; OR

"COMPLIANCE OF THE PRODUCT WITH THE REQUIREMENTS OF ANY LAW, RULE, SPECIFICATION OR CONTRACT PERTAINING THERETO.

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EQUIPMENT IS INCLUDED WITH THE PRODUCT DISTRIBUTED BY SAMSUNG OR OTHERWISE, INCLUDING THE ABILITY TO INTEGRATE ANY SUCH SOFTWARE OR EQUIPMENT WITH THE PRODUCT. THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE AND SUITABILITY OF ANY SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT LIE SOLELY WITH THE PURCHASER AND THE DIRECT VENDOR, OWNER OR SUPPLIER OF SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT, AS THE CASE MAY BE.

This Limited Warranty allocates risk of Product failure between Purchaser and SAMSUNG, and SAMSUNG's Product pricing reflects this allocation of risk and the limitations of liability contained in this Limited Warranty. The agents, employees, distributors, and dealers of SAMSUNG are not authorized to make modifications to this Limited Warranty, or make additional warranties binding on SAMSUNG. Accordingly, additional statements such as dealer advertising or presentation, whether oral or written, do not constitute warranties by SAMSUNG and should not be relied upon.

Customer Care Center:

1000 Klein Rd.

Plano, TX 75074

Toll Free Tel: 1.888.987.HELP (4357)

Samsung Telecommunications America, LLC:

1301 East Lookout Drive

Richardson, Texas 75082

Phone: 1-800-SAMSUNG (726-7864)

Phone: 1-888-987-HELP (4357)

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http://www.samsungnetwork.com/Home/opensource.

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